This listing of claims will replace all previous versions, and listings, of claims in the application:

**Listing of Claims:**

1-43. (*canceled*)

44. (*Previously presented*) A medium for culturing CHO cells comprising mannose, fructose, galactose, and N-acetylmannosamine, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.

45. (*Previously presented*) The medium of claim 44, wherein the medium is serum free.

46. (*Previously presented*) The medium of claim 44, wherein the medium is for culturing CHO cells during a production phase.

47. (*Previously presented*) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

48. (*Previously presented*) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.

49. (*Previously presented*) A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a medium comprising mannose, galactose, fructose, and N-acetylmannosamine, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells.

50. (*Previously presented*) The method of claim 49, wherein the medium is serum free.

51. (*Previously presented*) The method of claim 49, wherein the CHO cells are cultured in the medium during a production phase.

52. (*Previously presented*) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about

1 mM to about 10 mM and the concentration of N-acetylmannosamine in the medium is at least about 0.8 mM.

53. (*Previously presented*) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about 1.5 mM to about 4.5 mM.

54. (*Previously presented*) The method of claim 49, wherein the protein is a secreted, recombinant protein.

55. (*Previously presented*) The method of claim 49, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.

56. (*Previously presented*) A medium for culturing CHO cells comprising galactose and N-acetylmannosamine, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.

57. (*Previously presented*) The medium of claim 56, wherein the medium is serum free.

58. (*Previously presented*) The medium of claim 56, wherein the medium is for culturing CHO cells during a production phase.

59. (*Previously presented*) The medium of claim 56, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

60. (*Previously presented*) The medium of claim 56, wherein the concentration of galactose is from about 1.5 mM to about 4.5 mM.

61. (*Previously presented*) A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a medium comprising galactose and N-acetylmannosamine, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells.

62. (*Previously presented*) The method of claim 61, wherein the medium is serum free.

63. (*Previously presented*) The method of claim 61, wherein the CHO cells are cultured in the medium during a production phase.

64. (*Previously presented*) The method of claim 61, wherein the concentration of galactose in the medium, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine in the medium is at least about 0.8 mM.

65. (*Previously presented*) The method of claim 61, wherein the concentration of galactose in the medium, is from about 1.5 mM to about 4.5 mM.

66. (*Previously presented*) The method of claim 61, wherein the protein is a secreted, recombinant protein.

67. (*Previously presented*) The method of claim 61, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.

68-91. (*Cancelled*)

92. (*Previously presented*) A medium for culturing CHO cells comprising mannose, fructose, and galactose, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.

93. (*Previously presented*) The medium of claim 92, wherein the medium is serum free.

94. (*Previously presented*) The medium of claim 92, wherein the medium is for culturing the CHO cells during a production phase.

95. (*Previously presented*) The medium of claim 92, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM.

96. (*Previously presented*) The medium of claim 92, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.

97. (*Previously presented*) A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a medium comprising mannose, fructose, and galactose, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells.

98. (*Previously presented*) The method of claim 97, wherein the medium is serum free.

99. (*Previously presented*) The method of claim 97, wherein the CHO cells are cultured in the medium during a production phase.

100. (*Previously presented*) The method of claim 97, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about 1 mM to about 10 mM.

101. (*Previously presented*) The method of claim 100, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about 1.5 mM to about 4.5 mM.

102. (*Previously presented*) The method of claim 97, wherein the protein is a secreted, recombinant protein.

103. (*Previously presented*) The method of claim 97, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.

104. (*Previously presented*) A medium for culturing CHO cells comprising fructose and galactose, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.

105. (*Previously presented*) The medium of claim 104, wherein the medium is serum free.

106. (*Previously presented*) The medium of claim 104, wherein the medium is for culturing the CHO cells during a production phase.

107. (*Previously presented*) The medium of claim 104, wherein the concentrations of galactose and fructose are each from about 1 mM to about 10mM.

108. (*Previously presented*) The medium of claim 107, wherein the concentrations of galactose and fructose are each from about 1.5 mM to about 4.5 mM.

109. (*Previously presented*) A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a medium comprising fructose and galactose, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells.

110. (*Previously presented*) The method of claim 109, wherein the medium is serum free.

111. (*Previously presented*) The method of claim 109, wherein the CHO cells are cultured in the medium during a production phase.

112. (*Previously presented*) The method of claim 109, wherein the concentrations of galactose and fructose in the medium are each from about 1 mM to about 10 mM.

113. (*Previously presented*) The method of claim 112, wherein the concentrations of galactose and fructose in the medium are each from about 1.5 mM to about 4.5 mM.

114. (*Previously presented*) The method of claim 109, wherein the protein is a secreted, recombinant protein.

115. (*Previously presented*) The method of claim 109, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.